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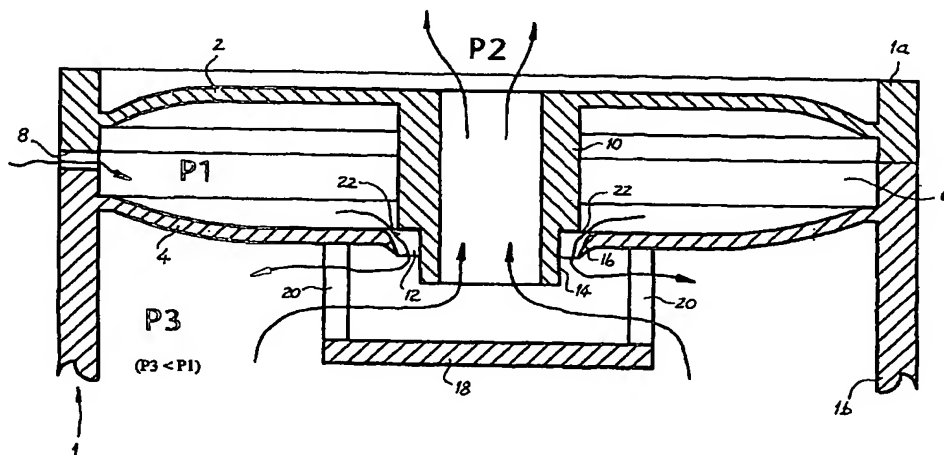
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(54) Title: A VALVE DEVICE HAVING TWO MEMBRANES FOR A DRINKING CONTAINER



(57) Abstract: An underpressure-activated valve device for a drinking container (32). The device consists of an outer membrane (2) and an inner membrane (4) that are placed at an axial distance from one another, and their peripheral attachment areas are pressure-sealingly interconnected, causing a reference pressure chamber (6) having at least one vent (8) to an ambient pressure P1 to exist between the membranes (2, 4). One membrane (2, 4) is fixedly connected to a flow pipe (10), and the other membrane (4, 2) is provided with a membrane opening (12) within which the pipe (10) is movably arranged. The membrane opening (12) is associated with a primary sealing body (18) for sealing against fluid flow via the pipe (10), and with a secondary sealing body (16) for sealing between the chamber (6) and an internal pressure P3 in the container (32). Both sealing bodies (16, 18) are placed in pressure-sealing contact with the pipe (10) when the valve device is in an inactive position of rest, while at least the primary sealing body (18) is placed in an open position when the valve device is in an active position.



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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 2003/000409

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B65D 47/24, A47G 19/22

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B65D, A61J, A47G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4135513 A (ARISLAND), 23 January 1979 (23.01.1979), figure 1 --	1-14
A	US 5560513 A (JARRELL), 1 October 1996 (01.10.1996), column 2, line 61 - column 3, line 6, figures 2,3 --	1-14
A	US 5747083 A (RAYMOND ET AL), 5 May 1998 (05.05.1998), figures 1-6 --	1-14
A	US 5890620 A (BELCASTRO), 6 April 1999 (06.04.1999), column 6, line 53 - column 7, line 61, figures 4,5 --	1-14

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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"&amp;" document member of the same patent family

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6305570 B1 (ATKIN ET AL), 23 October 2001 (23.10.2001), figures 1-13, abstract --	1-14
A	WO 0192133 A2 (ESSEBAGGERS, JAN), 6 December 2001 (06.12.2001), figures 1-7, abstract --	1-14
P,A	WO 02098757 A1 (NAESJE, KJETIL), 12 December 2002 (12.12.2002), figures 1,2 -- -----	1-14

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